



1/2

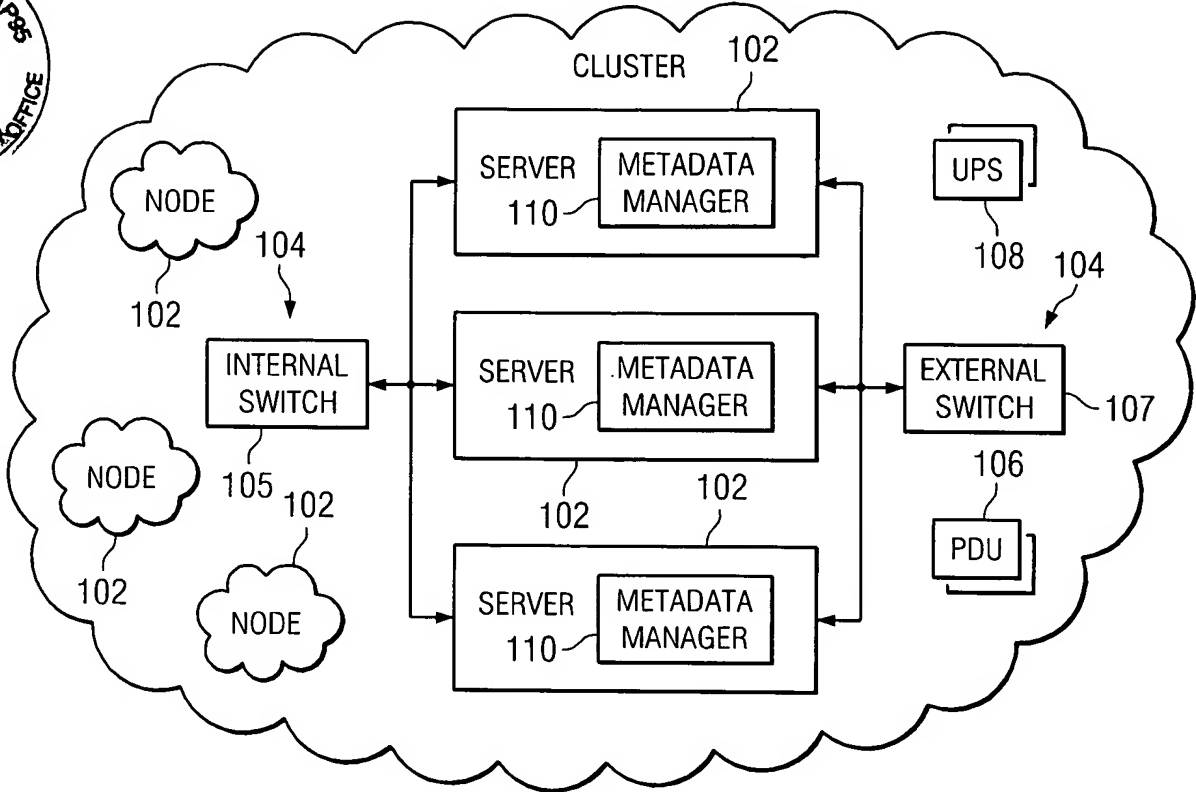
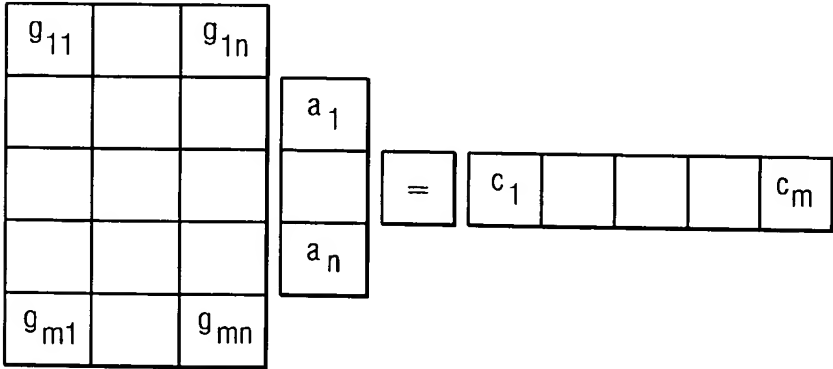


FIG. 1

- ANY N+K CODING ALGORITHM CAN BE REPRESENTED IN MATRIX FORM ($m = n+k$):



- WHERE $c_i = f_i(g_{i1}(c_1), \dots, g_{in}(c_n))$

FIG. 2

$$\begin{array}{rcl}
 (1+c)A & & \\
 = & & \\
 \begin{array}{ccccccc}
 1A & a_1 & a_2 & \dots & a_{m-2} & a_{m-1} & a_m \\
 cA & a_m & a_1 & \dots & a_{m-3} & a_{m-2} & a_{m-1}
 \end{array} & & \\
 + \text{key} & a_1 & & & & & \\
 = & \frac{a_1}{a_m} & & & & &
 \end{array}$$

$$\begin{array}{c}
 \frac{a_1}{a_m} \xrightarrow{+ a_m} \frac{a_1 + a_m}{a_{m-1}} \xrightarrow{+ a_{m-1}} \frac{a_1 + a_m + a_{m-1}}{a_{m-2}} \xrightarrow{+ a_{m-2}} \frac{a_1 + a_m + a_{m-1} + a_{m-2}}{a_{m-3}} \dots \xrightarrow{+ a_2} \frac{a_1 + a_m + a_{m-1} + a_{m-2} + \dots + a_2}{a_1}
 \end{array}$$

FIG. 3